

CLAIMS

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is as follows:

- 1 1. A method for creating integrated security within electronic devices,
2 comprising the steps of:
3 concatenating one or more scan chains to create a storage element;
4 connecting the storage element to a comparator within an electronic
5 circuit wherein an output of the comparator enables a system component;
6 receiving a password from a user which becomes the system
7 security id code; and
8 configuring one or more said scan chains to customize the storage
9 element which represents said security id code by blowing integrated
10 electronic fuses.
- 1 2. A method according to claim 1, wherein the scan chains are composed
2 of latches or registers and are accessible externally via one or more serial
3 inputs or outputs.
- 1 3. A method according to claim 1, wherein the scan chains are sufficiently
2 long in order to represent passwords of variable lengths and to contain a
3 security id code of large magnitude.
- 1 4. A method according to claim 1, wherein the security id code is not
2 alterable once blown and cannot be read from the storage elements after
3 the security code is blown except by the comparator.
- 1 5. A method according to claim 1, wherein the electronic fuses are blown
2 if the current security code id is provided to enable the securing process to

3 occur.

1 6. A method according to claim 1, wherein the password is compared by
2 the comparator to contents of the storage element.

1 7. A method according to claim 1, wherein the password is validated for
2 size limits and character content.

1 8. A method according to claim 1, wherein the storage element is a
2 plurality of storage elements.

1 9. A method according to claim 1, wherein the comparator is a plurality of
2 comparators.

1 10. A method for creating integrated security within electronic devices,
2 comprising the steps of:
3 concatenating one or more scan chains to create a storage element
4 said storage element configured by integrated electronic fuses to represent
5 a system security id code;
6 connecting the memory element to a comparator within an
7 electronic circuit wherein the output of the comparator enables a system
8 component;
9 receiving a password from a user;
10 providing the password to the comparator;
11 comparing the password to the system security id code wherein the
12 comparator output enables a system component.

1 11. A method according to claim 10, wherein the scan chains are
2 composed of latches or registers and is accessible externally via one or
3 more serial inputs or outputs.

- 1 12. A method according to claim 10, wherein the scan chains are
2 sufficiently long in order to represent passwords of variable lengths and to
3 contain a security id code of large magnitude.
- 1 13. A method according to claim 10, wherein the security id code is not
2 alterable and cannot be read from the storage elements except by the
3 comparator.
- 1 14. A method according to claim 10, wherein the password is compared by
2 the comparator to the contents of the storage element.
- 1 15. A method according to claim 10, wherein the password is validated for
2 size limits and character content.
- 1 16. A method according to claim 10, wherein the storage elements are a
2 plurality of storage elements.
- 1 17. A method according to claim 10, wherein the comparator is a plurality
2 of comparators.
- 1 18. An integrated security device for providing security within electronic
2 devices comprising:
3 a scan chain which is configured using electronic fuses to represent
4 a system security id code;
5 a comparator that compares a password entered by a system user to
6 the system security id code;
7 an output of the comparator which can enable a electronic
8 component or electronic device.

1 19. An integrated security device as recited in claim 18 wherein the scan
2 chain is a plurality of scan chains.

1 20. An integrated security device as recited in claim 18 wherein the
2 comparator is a plurality of comparators.